June 13, 2006

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## AMENDMENTS TO CLAIMS

- 1. (Amended) A balance of precision including
- (a) an elongate base having
  - (i) a first end and a second end; and
  - (ii) a floor;
- (b) at least one auxiliary weight;
- (c) a fulcrum connected to said base and having an elongate edge positioned a distance above said floor of said base;
- (d) an elongate beam assembly positioned on said fulcrum for turning about said fulcrum edge, said beam assembly including
  - (i) a body member positioned over and including on elongate groove contacting said fulcrum edge to permit said member to turn about said edge,
  - (ii) a pair of spaced apart support arms attached to and outwardly extending from said member and each having an elongate upper edge, an outer end, and a notch formed in said outer end thereof,
  - (iii) a symmetrical pan having an upper lip, and a pair of ears extending outwardly from said pan, each ear normally riding in one of said notches such that said ear can turn in said notch and support said pan above said floor when said lever assembly is in equipoise,
  - (iv) a first <u>graduated</u> scale arm attached to and outwardly extending from said body member and having an outer end generally positioned between said fulcrum and said wall and adjacent and level with said upper edge of said

wall when said beam assembly is in equipoise, said scale arm including a measurement scale and <u>a scale</u> weight (41A) slidably mounted thereon for balancing said beam assembly when said beam assembly is in equipoise, <u>said measurement scale comprising a series of marked off spaces used to measure weight</u>, an aperture formed in said <u>measurement graduated</u> scale <u>arm</u> to receive removably said auxiliary weight, <u>and</u> a bottom (78).

- 2. (New) A balance of precision including
- (a) an elongate base having
  - (i) a first end and a second end; and
  - (ii) a floor;
- (b) at least one auxiliary weight;
- (c) a fulcrum connected to said base and having an elongate edge positioned a distance above said floor of said base;
- (d) an elongate beam assembly positioned on said fulcrum for turning about said fulcrum edge, said beam assembly including
  - (i) a body member positioned over and including on elongate groove contacting said fulcrum edge to permit said member to turn about said edge,
  - (ii) a pair of spaced apart support arms attached to and outwardly extending from said member and each having an elongate upper edge, an outer end, and a notch formed in said outer end thereof,
  - (iii) a symmetrical pan having

an upper lip, and
a pair of ears extending outwardly from said pan, each ear
normally riding in one of said notches such that said ear can turn in
said notch and support said pan above said floor when said lever
assembly is in equipoise,

(iv) a first graduated scale arm attached to and outwardly extending from said

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1		body member and having		
2		a pair of edges (60, 62),		
3		an inner end adjacent said body, and		
4		an outer end generally positioned between said fulcrum and said wall		
		and adjacent and level with said upper edge of said wall when said		
5		beam assembly is in equipoise,		
6		said graduated scale arm including		
7		a measurement scale comprising a series of marked off spaces used		
8		to measure weight,		
9		a scale weight (41A) slidably mounted thereon to slide along said		
10		edges to balance said beam assembly when said beam assembly is		
11		in equipoise,		
		a location at one of a pair comprising		
12		said inner end, and		
13		said outer end,		
14		to mount said auxiliary weight (43), and		
15		a bottom (78),		
16		said scale weight including a detent (41B) shaped to fit, when said auxiliary		
17		weight is mounted at said location, at least partially around said auxiliary		
18		weight such that a portion of said scale weight can slide along said		
19		graduated scale arm past at least a portion of said auxiliary weight and at		
		least one of said edges.		
20				
21	3.	(New) A balance of precision including		
22	(a)	an elongate base having		
23	Į Į	(i) a first end and a second end; and		
24	<b> </b>	(ii) a floor;		
25	(b)	(c) a fulcrum connected to said base and having an elongate edge positioned a		
26	(c)			
27	(4)	distance above said floor of said base; an elongate beam assembly positioned on said fulcrum for turning about said		
	(d)	fulcrum edge, said beam assembly including		
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1	(i)	a body member positioned over and including on elongate groove contacting
2		said fulcrum edge to permit said member to turn about said edge,
3	(ii)	a pair of spaced apart support arms attached to and outwardly extending
4		from said member and each having
Ì		an elongate upper edge,
5		an outer end, and
6		a notch formed in said outer end thereof,
7	(iii)	a symmetrical pan having
8		an upper lip, and
9		a pair of ears extending outwardly from said pan, each ear
10		normally riding in one of said notches such that said ear can turn in
		said notch and support said pan above said floor when said lever
11		assembly is in equipoise,
12	(iv)	a first graduated scale arm (38A) attached to and outwardly extending from
13		said body member and having
14		a pair of edges (60, 62),
15		an inner end adjacent said body, and
16		an outer end generally positioned between said fulcrum and said wal
17		and adjacent and level with said upper edge of said wall when said
		beam assembly is in equipoise,
18		said graduated scale arm including
19		a measurement scale comprising a series of marked off spaces used
20		to measure weight,
21		a scale weight (41A) slidably mounted thereon to slide along said
22		edges to balance said beam assembly when said beam assembly is
23		in equipoise,
24		a location at one of a pair comprising
		said inner end, and
25		said outer end,
26		to mount said auxiliary weight (43), and
27		a bottom (78),
28		said scale weight including a detent (41B) shaped to fit, when said auxilian

graduated scale arm; and,

(ii) a detent (41B) formed in said bridging section and shaped to fit, when said auxiliary weight is mounted at said location, at least partially around said foot portion (43C) such that a portion of said scale weight can slide along said graduated scale arm past at least a portion of said auxiliary weight.

## 10. (New) The balance of Claim 2 wherein

- (a) when said auxiliary weight is mounted at said location, a foot portion (43C) of said auxiliary weight extends outwardly from said bottom (78) of said graduated scale arm;
- (b) said scale weight includes
  - (i) a bridging section extending over and beneath said bottom (78) of said graduated scale arm; and,
  - (ii) a detent (41B) formed in said bridging section and shaped to fit, when said auxiliary weight is mounted at said location, at least partially around said foot portion (43C) such that a portion of said scale weight can slide along said graduated scale arm past at least a portion of said auxiliary weight.

## 11. (New) The balance of Claim 3 wherein

- (a) when said auxiliary weight is mounted at said location, a foot portion (43C) of said auxiliary weight extends outwardly from said bottom (78) of said graduated scale arm;
- (b) said scale weight includes
  - (i) a bridging section extending over and beneath said bottom (78) of said graduated scale arm; and,
  - (ii) a detent (41B) formed in said bridging section and shaped to fit, when said auxiliary weight is mounted at said location, at least partially around said foot portion (43C) such that a portion of said scale weight can slide along said graduated scale arm past at least a portion of said auxiliary weight.